

MARCZYNSKA, Antonina; ADAMCZYK, Bogumil; SKAWINSKI, Stefan

Effect of hemorrhage on the level of GOT, GPT and alkaline phosphatase in the blood serum in the rabbit. Pol. przegl. chir. 34 no.12:1287-1289 '62.

1. Z II Kliniki Chirurgicznej AM w Krakowie. Kierownik: prof. dr J. Oszaeki
i z Zakladu Farmakodynamiki AM w Krakowie. Kierownik: prof. dr J. Hano.
(BLOOD ALKALINE PHOSPHATASE) (ASPARTATE AMINOTRANSFERASE)
(ALANINE AMINOTRANSFERASE) (HEMORRHAGE)

SKAWINSKI, Stefan; ADAMCZYK, Bogumil; MARCZYNSKA, Antonina; SZNAPKA, Zbigniew

Posthemorrhagic movement of proteins and water in rabbits after
pharmacological exclusion of the autonomic nervous system. Pol.
przepl. chir. 34 no.9:887-892 '62.

1. Z II Kliniki Chirurgicznej AM w Krakowie Kierownik: prof. dr
J. Oszaeki Z Zakladu Farmakodynamiki AM w Krakowie Kierownik: prof.
dr J. Hano.

(SHOCK HEMORRHAGIC)	(BLOOD PROTEINS)
(BODY FLUIDS)	(ATROPINE) (ERGOTAMINE)

OSZACKI, Jan; MARCZYNSKA, Antonina

Theoretical principles for the clinical study on body constituents.
Polski przegl. chir. 34 no.5:403-411 M_y '62.

1. Z II Kliniki Chirurgicznej AM w Krakowie Kierownik: prof. dr
J. Oszacki Z Instytutu Onkologii w Krakowie Kierownik: doc. dr
H. Holodziejska.

(BODY COMPOSITION)

(SURGERY OPERATIVE)

MARCZYNSKA, Antonina

Total body water in patients with stomach cancer. Nowotwory 12 no.3:
173-178 '62.

1. Z Instytutu Onkologii Oddział w Krakowie Dyrektor: doc. dr med.
H. Kołodziejaska i z II Kliniki Chirurgicznej Akademii Medycznej w
Krakowie Kierownik: prof. dr med. J. Oszański.
(BODY FLUIDS) (STOMACH NEOPLASMS)

KOŁODZIEJSKA, Hanna; MARCZYŃSKA, Antonina; SKOLYSZEWSKI, Jan

5-year survival following adrenalectomy in a male patient with advanced breast cancer. Nowotwory 12 no.2:147-152 '62.

1. Z Instytutu Onkologii Oddział w Krakowie Dyrektor: doc. dr med.
H. Kołodziejska.

(BREAST NEOPLASMS surg) (ADRENALECTOMY)

LENKO, Jan; MARCZYNSKA, Antonina

Behavior of the bed of adenoma after Freyer's, Millin's and Hryntschak's
prostatectomy (comparative studies). Rozhl. chir. 40 no.6:363-366
Je '61.

1. Urologicka klinika lekarske akademie v Krakove, prednosta prof. dr.
St. Laskownicki Urologicka klinika Vojenske lekarske akademie, pred-
nosta prof. dr. Jan Lenko.

(PROSTATECTOMY)

MARCZYNSKA, Antonina

Creatine and creatinine in patients with gastric cancer. Polski
przegl. chir. 33 no.7/9:800-801 '61.

1. Z Instytutu Onkologii Oddział w Krakowie Kierownik: doc. dr
H. Kolodziejska.
(STOMACH NEOPLASMS metab) (CREATINE AND CREATININE metab)

MARCZYNSKA, Antonina; CHRZANOWSKI, Andrzej; SKAWINSKI, Stefan

Basal metabolism in patients with gastric cancer. Polski przegl.
chir. 33 no.7/9:793-795 '61.

1. Z Instytutu Onkologii Oddział w Krakowie Kierownik: doc. dr
H. Kolodziejska i z II Kliniki Chirurgicznej AM w Krakowie Kierownik:
prof. dr J. Oszaeki.

(STOMACH NEOPLASMS metab) (BASAL METABOLISM)

MARCZYNSKA, Antonina; ADAMCZYK, Bogumil; SMOLAK, Krystyna; LENCZYK, Maria

Liver function tests in patients with gastric cancer. Polski
przegl. chir. 33 no.7/9:772-774 '61.

1. Z Instytutu Onkologii Oddział w Krakowie Kierownik: doc. dr
H. Kolodziejska.
(STOMACH NEOPLASMS phiol) (LIVER FUNCTION TESTS)

SOWINSKA, Barbara; PAZDOR, Franciszek; ADAMCZYK, Bogumil; MARCZYNSKA,
Antonina

Hyponatremia and hypokaliemia in gastric cancer. Polski przegl.
chir. 33 no. 7/8:759-760 '61.

1. Z II Kliniki Chirurgicznej AM w Krakowie Kierownik: prof. dr
J. Oszacki i z Instytutu Onkologii Oddzial w Krakowie Kierownik:
doc. dr H. Kolodziejaska.

(SODIUM blood) (POTASSIUM blood)
(STOMACH NEOPLASMS blood)

LENKO, Jan; MARCZYNSKA, Antonina

Comparative studies on the behavior of the locus of adenoma after
prostatectomy by Freyer's, Millin's and Hryntschak's methods.
Polski przegl. chir. 33 no.2:179-182 '61.

1. Z Kliniki Urologicznej AM w Krakowie Kierownik: prof. dr
St. Laskownicki i z Kliniki Urologicznej WAM w Lodzi Kierownik:
prof. dr J. Lenko.

(PROSTATECTOMY)

OSZACKI, J.; MARCZYNSKA, A.; SOWINSKA, B.; ADAMCZYK, B.; GEDLICZKA, O.

Investigations on electrolyte & protein changes in cancer of stomach & in ulcerative disease of stomach & duodenum. Polski tygod. lek. 14 no.12:516-518 23 Mar 59.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie; kierownik: prof. dr med. Kornel Michejda i z Instytut Onkologii w Krakowie; dyrektor: doc. dr med. Hanna Kolodziejska. Adres: Krakow, ul. Kopernika 21, II Klin. Chirurg.

(BLOOD PROTEINS, in various dis.
cancer of stomach & peptic ulcer (Pol))
(ELECTROLYTES, in blood
in cancer of stomach & peptic ulcer (Pol))
(PEPTIC ULCER, blood in
electrolytes & proteins (Pol))
(STOMACH NEOPLASMS, blood in
same)

OSZACKI, Jan; MARCZYNSKA, Antonina; ADAMCZYK, Bogumil; GEDLICZKA, Otmar

Experimental investigations on the translocation of blood protein
after hemorrhage. Polski tygod. lek. 14 no.9:374-376 2 Mar 59.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie: kierownik: prof. dr
K. Michejda i z Zakladu Farmakodynamiki A. M. w Krakowie; kierownik:
prof. dr J. Kano. Adres: Krakow, ul. Kopernika 21, I Klinika
Chirurgiczna A.M.

(HEMORRHAGE, exper.

relation to translocation of blood proteins in rabbits (Pol))

(BLOOD PROTEINS

translocation after exper. hemorrh. (Pol))

ADAMCZYK, Bogumil; MARCZYNSKA, Antonia; OSZACKI, Jan; GEDLICZKA, Otmar

Effect of hemorrhage on blood cholesterol, sodium & chloride ion levels. Polskie tygod. lek. 14 no.1:15-16 5 Jan 59.

1. (Z II Kliniki Chirurgicznej A. M. w Krakowie; kierownik; prof. dr K. Michejda oraz z Zakładu Farmakodynamiki A. M. w Krakowie; kierownik: prof. dr J. Hano) Adres: Krakow, ul. Garncarska 11, Inst. Onkologii.

(HEMORRHAGE, exper.

eff. on blood cholesterol, sodium & chloride ions in rabbits (Pol))

(CHOLESTEROL, in blood

eff. of exper. hemorrh. (Pol))

(SODIUM, in blood

same)

(CHLORIDES, in blood

same)

OSZACKI, J.; KROL, W.; MARCZYNSKA, A.; CEGIELSKI, M.; MAJ, J.; ADAMCZYK, B.

Experimental hypothermy in cats. I. Cardiographic & electrocardiographic investigations. II. Changes in the cation & serum protein contents. Polski przegl. chir. 30 no.7:719-732 July 58.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie Kierownik; prof. dr K. Michejda z I Kliniki Chorob Wewnętrznych A. M. w Krakowie Kierownik: prof. dr. L. Tochowicz oraz z Zakładu Farmakodynamiki A. M. w Krakowie Kierownik: prof. Dr. J. Hano Krakow, ul. Kopernika 21.

(HYPOTHERMIA, experimental

eff. of heart, ECG manifest., changes in serum protein & cation levels in cat (Pol))

(HEART, physiol.

eff. of hypothermia, ECG manifest. in cat (Pol))

(ELECTROCARDIOGRAPHY

eff. of hypothermia in cat (Pol))

(BLOOD PROTEINS

eff. of hypothermia on levels in cat (Pol))

(IONS, in blood

cations, eff. of hypothermia on levels in cat (Pol))

OSZACKI, Jan; MARCZYNSKA, Antonina; LASZKOWNICKI, Andrzej; FINOWICKA, Krystyna

Postoperative metabolism in patients with hyperthyroidism and goiter.
Polski przegl. chir. 30 no.4:347-356 Apr 58.

1. Z II Kliniki Chirurgicznej A. M. w Krakowie. Kierownik: prof. dr K. Micejda i z Kliniki Urologicznej A. M. w Krakowie Kierownik: prof. dr S. Iaskownicki. Krakow, ul. Kopernika 21.

(HYPERTHYROIDISM, surgery

postop. metab. of electrolyte, nitrogen & 17-ketosteroids
(Pol))

(GOITER, surgery

postop. metab. of electrolytes, nitrogen & 17-ketosteroids
(Pol))

OSZACKI, Jan, MARCZYNSKA, Antonina, ADAMCZYK, Bogumił

Effect of surgical trauma on the electrolyte & protein metabolism in patients subjected to bilateral adrenalectomy. Polski przegl. chir. 30 no.3:227-235 Kr '58

1. Z Instytutu Onkologii w Krakowie. Dyrektor: doc dr H. Kolodziejaska.
Adres autora: Krakow, ul. Kpurnika 21.

(ELECTROLYTES, metab.

postop. eff of bilateral adrenalectomy (Pol))

(PROTEINS, metab.

same (Pol))

(ADRENALECTOMY, eff.

electrolyte & protein metab., postop. eff. of bilateral adrenalectomy (Pol))

OSZACKI, Jan, MARCZYNSKA, Antonina, ADAMCZYK, Gobumil

Effect of surgical trauma (partial gastrectomy) on the electrolyte & protein balance in patients with stomach cancer. Polski przegl.chir. 30 no.2:131-141 Mar 58

1. Z Instytutu Onkologii w Krakowie. Dyrektor: doc. dr H. Kolodziejaska
Krakow, ul. Kopernika 21.

(GASTRECTOMY, eff.

partial gastrectomy on blood & urine levels of electrolytes & blood protein levels in stomach cancer patients (Cz)

(ELECTROLYTES, determ.

in blood & urine, eff. of partial gastrectomy in stomach cancer patients (Cz))

(BLOOD PROTEINS,

eff. of partial gastrectomy in stomach cancer patients (Cz)

MARCZYNSKA A.

POLAND / General Problems of Pathology. Tumors.
Comparative Oncology. Human Tumors.

U

Abs Jour : Ref. Zhur - Biologiya, No. 3, 1959, 13712

Author : Oszaeki, Ian; Kolodziejska, Hanna; Marczynska,
Antonina

Inst : -

Title : Bilateral Radical Removal of the Adrenals in
Neglected Cases of Mammary Gland Carcinoma.

Orig Pub : Nowotwory, 1957, 7, No. 1-2, 49-60

Abstract : No abstract

Card 1/1

CIESLINSKI, Stanislaw; LASKOWNICKI, Stanislaw; LENKO, Jan;
MARCZYNSKA, Antonina

~~XXXXXXXXXXXXXXXXXXXX~~
Tissue therapy of urethral stricture. Polski przegl. chir. 28 no.
6:585-591 June 56.

1. Z Kliniki Urologicznej A.M. w Krakowie Kierownik: prof. dr. med.
St. Laskownicki i z Oddziału Urologicznego Centralnego Wojskowego
Szpitala Klinicznego Ordynator: doc. dr. med. J. Lenko, Krakow,
ul. Kopernika 26.

(URETHRA, stenosis,
tissue ther. in males (Pol))
(TISSUE THERAPY, in various diseases,
urethra stenosis in males (Pol))

MARCZYNSKA, Antonina

Papillomatous neoplasms of the renal pelvis. Urol. polska 10:81-89
1956.

1. Z Kliniki Urologicznej A. M. w Krakowie. Kierownik: prof. dr med.
Stanislaw Laskownicki.

(KIDNEY PELVIS, neoplasms
(Pol))

LASKOWNICKI, Stanislaw; MARCZYNSKA, Antonina

Cancer of the prostate. Urol. polska 9:63-65 1956.

1. Z Kliniki Urologicznej A.M. w Krakowie, Kierownik: prof.
dr. med. St. Laskownicki.

(PROSTATE, neoplasms,
(Pol))

MARCZYNSKA, Antonina

Attempted application of determination of urinary 17-ketosteroids in differential diagnosis of cancer of the prostate and chronic prostatitis. Urol. polska 9:51-56 1956.

1. Z Kliniki Urologicznej A.M. w Krakowie, Kierownik: prof. dr. med. Stanislaw Laskownicki.

(PROSTATE, neoplasms,

urinary 17-ketosteroids, value in differ. diag. from prostatitis (Pol))

(PROSTATITIS, urine in,

17-ketosteroids, value in differ. diag. from cancer (Pol))

(STERIODS, in urine,

17-keto, in cancer of prostate, value in differ. diag. from prostatitis (Pol))

MARCZYNSKA, Antonina, LENKO, Jan

Pathogenesis and therapy of urogenital tuberculosis. Wiadomosci
lek. 8 no.4:145-151 Apr '55.

1. Oddz.Urologiczny, Lodz, ul.Zeromskiego 113.
(TUBERCULOSIS, UROGENITAL
pathogen. & ther.,current status)

MARCZUKAJTIS, A.

POLIND/Chemical Technology. Chemical Products and Their Applications. Fats and Oils. Waxes. Soaps and Detergents. Flotation Agents.

R

Abs Jour: Ref Zhur-Khin., No 8, 1959, 29141.

Author : Marczukajtis, A.

List :

Title : On the Question of the Improvement of Polish Margarine Production.

Orig Pub: Przemysl Spozywczy, 11, No 7, 267-290 (1957) (in Polish)

Abstract: The author presents data on the consumption of butter and margarine in the various European countries up to 1954. Steps required for the improvement of the quality of margarine are indicated. -- N. Lyubshits.

Card : 1/1

MARCZYK, Wojciech, mgr., asystent

Henryk Raabe, 1882-1951. Problemy 18 no.10:733 '62.

1. Katedra Pedagogiki Spolecznej, Uniwersytet, Warszawa.

C.A. MARCZUKAJTIS, A.

11 C

Fat production by *Oidium lactis*. A. Marczukajtis (Zakłady Tłuszczowe, Bielsko-Biała, Poland). *Przemysł Rolny i Spożywczy* 4, 350-1(1950). - A review. W. Szybalski...

MARCZUK, M.

"Fire Protection of High Buildings." p. 207 (GAZ, MODA I TECHNIKA SANITARNA, Vol. 27,
No. 7, July 1953) Warszawa

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10,
October 1953. Unclassified.

MARCZONEK, Slawomir, mgr inz.

Experiments in capacitor bank switching by the horn gap isolator.
Energetyka Pol 18 no.6 168-171 Je '64.

1. Institute of Automatic Control of Electric Power Systems, Warsaw.

MARCZONEK, Slawomir, mgr inz.

Possibilities of applying the OMB 10/2 load isolating switch to capacitor banks. Energetyka Pol 17 no.4:116-118 Ap '63.

1. Instytut Automatyki Systemow Energetycznych, Warszawa.

MARCZONEK, Slawomir, mgr inz.

Studies on the usefulness of circuit breakers for switching
high-voltage capacitor batteries. Energetyka Pol 15
no. 10:305-316

1. Instytut Elektroenergetyki, Politechnika, Wroclaw.

MARCZINKIEWICZ, Andor; MUZILLER, Erika, Dr.

Some observations on the PAS infusion and hormonal therapy of pulmonary tuberculosis. Tuberkulozis 11 no.3-5:92-96 Mar-May 58.

1. Vasmegye Tanácsa hegyfalui tbc. szanatoriumának (mb. igazgató-
főorvos: Marczinkiewicz, Andor dr.) közleménye.

(TUBERCULOSIS, PULMONARY, ther.

PAS intravenous infusion with adjuvant ACTH & vitamin C (Hun))

(ACTH, ther. use

adjuvant to PAS with vitamin C in pulm. tuberc. (Hun))

(VITAMIN C, ther. use

adjuvant to PAS with ACTH in pulm. tuberc. (Hun))

SZERENYI, Jozsef, dr.,; SARADY, Kornel, dr.,; MARCZINKA, Eva.,dr.,;
KISS, Magdolna.

BCG vaccination in tuberculin allergic children. Gyermekgyógyászat
6 no.4:123-126 Apr 55.

(BCG VACCINATION
in tuberculin allergic child)
(TUBERCULIN
allergy, BCG vacc. in allergic child)

MARCZEWSKI, Zbigniew, mgr inż.

Nonmetal. radio
no. 7:218-223

Pa
U.

metal heating. Gaz woda to

218

MARCZEWSKI, Zbigniew, mgr inż. (Warszawa)

"Technicka Praca." A periodical reviewed by Zbigniew Marczewski.
Pracę budowl i bud mieszk 35 no2:126-127 F '63.

MARCZEWSKI, Zbigniew (Warszawa); WOZNIAK, Roman (Warszawa)

Scientific and research activities of the Chair of Technology of Prefabricates and Prestressed Concrete of the Warsaw Polytechnic College during the last ten years. Przegl budowl i bud mieszk 35 no.2:98-103 F '63.

MARCZEWSKI, Zbigniew, mgr inż.

In a building crane factory. Przegl mech 22 no.11:342-344
10 Je '63.

MARCZEWSKI, Zbigniew

"Encyclopedia of the atomic society." Reviewed by Zbigniew
Marczewski. Kwart hist nauki i tech 8 no.2:296-297 '63.

MARCZEWSKI, Zbigniew, mgr inz.

Certain new things in the technology of railroad rolling stock.
Przegl mech 22 no.11:340-342 10 Je '63.

MARCZEWSKI, Zbigniew, mgr. inz.

"Sun control, a new development" by J.H.Alderson. Reviewed by
Zbigniew Marczewski. Gaz woda tech sanit 36 no.5:197-198 My
'62.

MARCZEWSKI, Zbigniew, mgr., inz.

Aerial curtains. Gaz woda techn sanit 36 no. 4:159-160. Apr '62

MARCZEWSKI, Zbigniew, mgr., inz.

Gas heating of dwelling houses. Gaz woda techn sanit 36 no. 4:159
Ap '62

MARCZEWSKI, W.

"Mikhailov, A Combine Operator." p.6
(WIADOMOSCI GORNICZE Vol. 5, no. 1, Jan. 1954 Katowice, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

Marzewski, W.

2921

623.273.22(47:438)

Marzewski W. Optimum Lengths for Longwalls — In the Moscow Coalfield and in Poland.

„Optymalne długości ścian w Zagłębiu Podmoskiewskim i u nas”. Przegląd Górniczy, No. 11, 1953, pp. 376—380, 3 figs., 3 tabs.

In the Moscow coalfield, it has been found possible and expedient to increase the length of longwalls to some 100 or 115 metres. In the case of Poland, for seams of a maximum thickness of 2 1/2 metres and when using WLP-40S pneumatic and WLE-40S electric coal cutters, the optimum length amounts to 120 metres for hard coals, and to 200 metres for softer coals; when using cutter-loaders, to from 70 to 115 metres for longwalls worked with caving, and from 100 to 160 metres for longwalls with stowage strips. Influence of work organisation, thickness of seams and underground haulage on the length of walls.

MARCZEWSKI, Stanislaw

The effect of invisible rays of the light spectrum on hydration
of serum proteins. Arch. immun. ther. exp. 13 no.2:172-177 '65

1. Military Institute of Aviation Medicine, Warsaw.

MARCZEWSKI, S.; BRODA, B.

Effects of acetylcholine, physostigmine and histamine on the nervous system in animals in low atmospheric pressures. Lek. wojsk., Warszawa 25:66-78 D '49.

Effects of acetylcholine, physostigmine and histamine on the nervous system in animals in low atmospheric pressures. Lek. wojsk., Warszawa 25:66-78 D '49. (CIAM 19:2)

MARCZEWSKI S.

MARCZEWSKI S.

Wplyw lotu poziomego i nurkowego na trombocyty we krwi.
/Influence of horizontal flight and diving on thrombocytes
in blood/ Lek. wojak., Warszawa Vol. 25 Dec 49 p. 45-52.

1. NAI

GLML Vol. 19, No. 2 Aug. 1950

Acclimatization of the human organism to low atmospheric pressures. P. Goebel and S. Marczewski. *Acta Med. Exptl.* (Warsaw) 12, 87-9. Dogs were kept in low-pressure chambers at a pressure of 210 mm. Hg (10,000 m.) for 10 hrs. per day over periods of 2 months. Blood pH fell from 7.35 to 7.05, alkali reserve was reduced from 40.4 to 22.8 ml. of CO₂, O capacity and the no. of red blood cells increased considerably. Intravenous injections of 50-100 mg. of oral administration of 0.5 g. per kg. body-wt. of NH₄Cl in normal dogs produced increased red-cell count and O capacity. The adaptation of these dogs to conditions of low barometric pressure took place much more quickly.

B. C. P. A.

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CH

Determination of the hydrogen-ion concentration in blood by means of the hydrogen electrode of C. H. Lasch. Michal Rosnowski and Stanislaw Marczewski. *Med. Doświadczalna Spoleczna* 15, 358-74 (in French 374-5) (1932).—A detailed description is given of the app. and of a modification of Lasch's method. The method is simple and yields accurate results. The following pH values are observed for blood, serum and plasma at 18°: 7.5-7.6, 7.6-7.7 and 7.5-7.67, resp. S. Laufer

PROCESSES AND PROPERTIES INDEX

1ST AND 2ND GROUPS

3RD AND 4TH GROUPS

5TH AND 6TH GROUPS

7TH AND 8TH GROUPS

9TH AND 10TH GROUPS

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✓ Marczewski, E. Remarks on sets of measure zero and the derivability of monotonic functions. *Prace Mat.* 1 (1955), 141-144. (Polish. Russian and English summaries) 1 - F/W
Construction of a purely discontinuous monotonic function $f(x)$ which does not possess a finite derivative at any point of an arbitrarily prescribed set of measure zero.
F. A. Behrend (Melbourne).

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• Marczewski, E. On translations of sets and a theorem of Steinhaus. Prace Mat. 1 (1955), 256-263. (Polish. *Math. 1* - F/H)

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A systematic survey with proofs of a proposition announced earlier [Colloq. Math. 2 (1951), 309], connected with the well-known theorem by Steinhaus [Fund. Math. 1 (1920), 93-104; cf. Hadwiger, MR 8, 255; Kestelman, MR 9, 188, 274; Eggleston, MR 11, 166]. The considerations take place in R^n . Each L -measurable set of measure >0 has (S_n) -property for $n=1, 2, \dots$ (Th. 1). If CE is of measure 0 or of first category, then $E \in (T)$ (Th. 3). Problems: Does there exist a perfect set of measure 0 having the property (S_n) ? Does there exist a set F_σ of measure 0 with the (T) -property? Definitions: A set E has the (S_n) -property, if there exists a real $\eta > 0$ such that for every A of diameter $< \eta$ and $\bar{A} \subseteq E$ there exists a translation of A into E . The set E has the (T) -property, if every set of $\leq \aleph_0$ points admits a translation into E .
G. Kurepa (Zagreb).

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PHASE I BOOK EXPLOITATION

POL/4231

Polskie towarzystwo matematyczne

Prace Matematyczne, I, 2 (Mathematical Transactions, Vol. 1, pt. 2).

Warszawa, Panstwowe wyd-wo naukowe, 1955. 441 p. 1463 copies printed.
Errata slip inserted.

Editorial Committee: Wladyslaw Orlicz (Chief Ed.), Stefan Drobot (Deputy Chief Ed.), Adam Bielecki, Stanislaw Hartman, Jan Mikusiński, Roman Sikorski, Marcell Stark, Hanna Szmyszkowicz, Krzysztof Tatarkiewicz, and Włodzimierz Wrona.

PURPOSE: This book is intended for mathematicians.

COVERAGE: The book consists of a collection of articles on analysis, series, and function theory. Among the topics discussed are: the solution of Diophantine equations, set translation, power series, measure by a function, operational calculus, approximation of a function, and functional spaces. References and summaries in English and Russian are found at the end of most of the articles. No personalities are mentioned.

Card ~~1/3~~

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Guest lectures at the Mathematical Institute, University of Copenhagen:
May 18, 20, 21:

E. MARCZEWSKI (Wroclaw): Convergence en mesure. Theoreme
ergodique aleatoire. Ensembles independants.

SO: Nouvelles Mathe. Internationale (Intl. Mathe. News), July 1954, (Vienna-publ.) ~~1-1~~

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Mathematical Reviews
Vol. 14 No. 11
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Analysis

8-10-54
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Marczewski, E. Remarks on the Poisson stochastic process. *II. Studia Math.* 13, 130-136 (1953). (111111)

Let Ω_0 be the set of all integral-valued functions $\omega(t)$ defined for $t \geq 0$ which are continuous on the right, non-decreasing, and such that $\omega(0) = 0$. Let $(\Omega, \mathcal{B}_\Omega, \mu)$ be a stochastic process, where $\mathcal{B}_\Omega$ is the smallest Borel field over sets of ω defined by inequalities at a finite number of values of t , and μ a probability measure on $\mathcal{B}_\Omega$. Let I be the generic designation of a t -interval closed on the right and open on the left, and let $d_I(\omega)$ be the increment of ω on I . Let b be the generic designation of a Borel set on the t -line, and $d_b(\omega)$ be the sum of the jumps of ω over all points t in b . Suppose: (h) the distribution function of the random variable d_I depends only on the length of I ; (i) if $I_1, \dots, I_n$ are disjoint then the random variables $d_{I_1}, \dots, d_{I_n}$ are independently distributed. The author proves: I) the distribution function of d_b depends only upon the measure of b , for any b ; II) if the Borel sets b_j converge in (Lebesgue) measure to b , then d_{b_j} converges in probability (according to μ) to d_b ; III) if $b_1, \dots, b_n$ are disjoint Borel sets then $d_{b_1}, \dots, d_{b_n}$ are independently distributed. J. Wolfowitz. ①
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(2)
Marczewski, E., and Ryll-Narzikowski, C. Projections in
abstract sets. Fund. Math. 40, 160-164 (1953).

Suppose that X and Y are sets, E and F are classes of subsets of X and Y respectively, and H is the class of all Cartesian products $A \times B$ with A in E and B in F . The operation of projection, from $X \times Y$ to X , does not preserve Boolean operations, and, consequently classes obtained from H by such operations do not necessarily project onto classes similarly obtained from E . With measure-theoretic applications in mind (see following review), the authors obtain some positive results in this direction in case the class F is compact (see preceding review). Sample: if F is compact, then the projection into X of every non-empty set that is a countable intersection of finite unions of sets in H is a countable intersection of finite unions of sets in E .

P. R. Halmos (Chicago, Ill.).

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MARCEWSKI, EDWARD

Marczewski, Edward. Measures in almost independent fields. Fund. Math. 38, 217-229 (1951).

For the purposes of this paper a *measure* is a non-negative and *additive* set function μ defined on a Boolean algebra M of subsets of a set X and is such that $\mu(X) = 1$. An *extension* of a measure μ on M is a measure ν on an algebra containing M such that $\nu(E) = \mu(E)$ whenever $E \in M$. The definitions of the concepts of σ -measure and σ -extension are obtained from the preceding sentences by qualifying each italicized word with the adjective σ . A family $\{M_i\}$ of algebras carrying a corresponding family $\{\mu_i\}$ of measures is almost-independent (almost- σ -independent) if, for each finite (countable) sequence $\{i_n\}$ of distinct indices, $\bigcap_n E_n \neq \emptyset$ whenever $E_n \in M_{i_n}$ and $\mu_{i_n}(E_n) \neq 0$ for all n . A common extension μ of all μ_i is multiplicative if $\mu(\bigcap_n E_n) = \prod_n \mu(E_n)$ whenever $E_n \in M_{i_n}$.

The author's main results are that (1) a common multiplicative extension of the measures μ_i exists (and is then necessarily unique) if and only if the algebras M_i are almost-independent; and (2) if each μ_i is a σ -measure, if all the σ -algebras M_i , with at most one exception, are finite, and if the family $\{M_i\}$ is almost- σ -independent, then there exists a common multiplicative σ -extension. P. R. Halmos.

Source: Mathematical Reviews,

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Sum of 1951

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Hartman, S., Marczewski, E., et Ryll-Nardzewski, C.
Théorèmes ergodiques et leurs applications. Colloquium
Math. 2, 109-123 (1951).

Exposition of recent results in ergodic theory centering around Birkhoff's individual ergodic theorem and its applications. The mapping φ in question is measure preserving, but not necessarily one-to-one. This makes it possible to apply the individual ergodic theorem to the mapping $\varphi(x) = 2x \pmod{1}$ or to the shift transformation of a "one-sided" infinite direct product measure space, and to obtain the classical result of Borel concerning normal numbers or the strong law of large numbers of Kolmogoroff. Applications of the individual ergodic theorem to the problems of continued fractions are also discussed. Most of the results discussed in this paper can be found in a paper by F. Riesz [Comment. Math. Helv. 17, 221-239 (1945); these Rev. 7, 255] and three papers by C. Ryll-Nardzewski and S. Hartman [see the reviews of these three papers above].

S. Kakutani (New Haven, Conn.).

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MARCZEWSKI, E.

Hartman, S., and Marczewski, E. On the convergence in measure. *Acta Sci. Math. Szeged* 12, Leopoldo Fejér et Frederico Riesz LXX. annos natis dedicatus, Pars A, 125-131 (1950).

Let (X, M, μ) be a probability space and, for every point $a = (a_1, \dots, a_k)$ in the k -space R^k , let L_a be the set of all points $(x_1, \dots, x_k)$ in R^k with $x_i < a_i$, $i=1, \dots, k$. It is well known that the statement A: "A sequence f_n of M -measurable functions defined on X and taking values in R^k is convergent in μ -measure to a function f " implies the statement B: "The distribution function of f_n converges to the distribution function F of f at each continuity point a of F ." In this paper the stronger result is obtained that statement A is equivalent with the following statement C: "The μ -measure of the symmetric difference of $f_n^{-1}(L_a)$ and $f^{-1}(L_a)$ converges to 0 at each continuity point a of F ." In fact, generalizations of this result to functions taking values in a metric space Y are obtained, and the following conclusions are derived: (a) The independence of the n th terms ($n=1, 2, \dots$) of two sequences of such functions implies the independence of their limits in measure; (b) if Y is of the power of the continuum, the limit in measure of a sequence of functions containing independent pairs of elements with arbitrarily large subscripts is constant almost everywhere.

H. M. Schaef (St. Louis, Mo.).

Source: Mathematical Reviews,

Vol 12, No. 3

2000

MARCZEWSKI, E.

Loś, J., and Marczewski, E. Extensions of measure.

Fund. Math. 36, 267-276 (1949).

Let μ be a finitely additive measure defined on a field M of elements of a Boolean algebra A . The main result of this paper is the following. To every number ξ between the inner and outer μ -measure of an arbitrary element Z of A there exists an extension ν of μ to the field generated by M and Z such that $\nu(Z) = \xi$. The method of extension used is effective only if the outer μ -measure of Z is finite. The paper ends with both a discussion of conditions under which this method is unique and an example showing that the above result is not true for all countably additive measures in σ -fields.

H. M. Schaefer (St. Louis, Mo.).

Source: Mathematical Reviews,

Vol 11 No. 10

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copy

MARCEWSKI, E.

Marczewski, E., and Sikorski, R. Remarks on measure and category. Colloquium Math. 2, 13-19 (1949).

The purpose of this paper is to present various conditions on a Borel measure in a topological space sufficient to ensure the existence of (*) a decomposition of the space into a set of measure zero and a set of the first category. The authors give a simple proof of the fact that (*) exists for Hausdorff measures in separable metric spaces. A cardinal number m is said to have measure zero if every finite measure defined on the class of all subsets of a set of power m vanishes identically whenever it vanishes on all finite sets. If a metric space contains a dense subset whose power has measure zero, then (*) exists for every σ -finite measure that vanishes on all finite sets. For nonmetric spaces this result is false: there exists a finite Borel measure μ in a compact Hausdorff space such that $\mu(X) = 0$ if and only if X is of the first category.

P. R. Halmos (Chicago, Ill.).

Source: Mathematical Reviews,

Vol. 12 No. 6

Small

MARZEWSKI, E.

Marcjewski, Edward. Ensembles indépendants et leurs applications à la théorie de la mesure. Fund. Math. 35, 13-28 (1948).

The author gives details of proofs of results announced earlier [C. R. Acad. Sci. Paris 207, 768-770 (1938)] and carries on that work. The essential idea is to discuss families of sets with the property that the intersection of finitely many (or sometimes of countably infinitely many) of the sets is never empty, with particular emphasis on the measures that can be defined on the fields of sets generated by these families. More general results have been obtained (in more complicated ways) by the author and Banach [abstract by Marzewski, Ann. Soc. Polon. Math. 19 (1946), 247-248 (1947); forthcoming paper by Banach].

J. L. Doob (Urbana, Ill.).

Source: Mathematical Reviews,

of

Vol 10 No. 5

MARCZEWSKI, EDWARD.

Marczewski, Edward. - Rozwoj matematyki w Polsce. Krakow, Nakl. Polskiej Akademii Umiejetnosci; skl. gl. w ksieg. Gebethnera i Wolffa, 1948. 46 p. (Polska Akademia Umiejetnosci. Historia nauki w monografiach, 1) /The development of mathematics in Poland. French summary. notes/

SO: Monthly List of East European Accessions, L.C., Vol. 3, No. 4, April, 1954

Marczewski, Edward

Marczewski, Edward. Sur l'isomorphisme des relations et l'isomorphisme des espaces. Ann. Soc. Polon. Math. 21 (1948), 336-342 (1949).

If E is any set and R is a binary relation defined in E , write A^+ for all those y in E such that yRx for some x in A , where A is any subset of E . The operation $A \rightarrow A^+$ is said to be determined by R , and makes E into an "allgemein-topologischen Raum" (ATR). As to the converse, the operation $A \rightarrow A^+$ in an ATR is determined by a relation R if and only if for $x \in A^+$ there exists $y \in A$ such that $x \in \{y\}^+$. The ATR determined by R is a T -space if and only if R is symmetric and reflexive; and it is a T_1 -space if and only if R is the identity relation, whereupon E becomes discrete.

R. Arens (Los Angeles, Calif.).

Spencer

Mathematical Reviews, 1950 Vol. 1 No. 8

Marzewski, E.

Marzewski, E. Concerning the symmetric difference in the theory of sets and in Boolean algebras. Colloquium Math. 1, 199-202 (1948).

Let $\mathcal{B}$ be a Boolean algebra with zero element 0 and universal element 1. Consider a binary operation $\odot$ and a subset $\mathcal{G}$ of $\mathcal{B}$ possessing the following properties: (1) $\mathcal{G}$ contains 0 and 1; (2) $\mathcal{G}$ is a group under the operation $\odot$ with 0 as unit element; (3) the operation $\odot$ is quasi-analytical over $\mathcal{G}$; that is,

$$(A_1 \odot A_2) \odot (B_1 \odot B_2) \subseteq (A_1 \odot B_1) \cup (A_2 \odot B_2)$$

where $\oplus$ is the Boolean symmetric difference operation. It is shown that the operations $\odot$ and $\oplus$ coincide over $\mathcal{G}$. Some analogues between the symmetric difference of sets and the absolute value of the difference of numbers are also mentioned.

W. Gustin (Bloomington, Ind.).

Source: Mathematical Reviews,

Vol. 10 No. 8

MARCZEWSKI, E

Marczewski, E., and Sikorski, R. Measures in non-separable metric spaces. Colloquium Math. 1, 133-139 (1948).

The main result of this paper is a necessary and sufficient condition in order that a metric space X have the following property: for each finite Borel measure μ in X there is a decomposition (1) $X = N + S$, where $\mu(N) = 0$ and S is separable. This condition is: there is a set Y of the same power as some basis of X and such that every finite measure defined for all subsets of Y and vanishing for all one-point sets, vanishes identically. If this condition is satisfied, then the decomposition (1) exists also for every σ -finite Borel measure in X .

H. M. Schaefer (St. Louis, Mo.).

Source: Mathematical Reviews,

Vol. 10, No. 1

Smiley

MARCZEWSKI, Edward

*Marczewski, Edward. Rozwój Matematyki w Polsce.
[Development of Mathematics in Poland]. Polska
Akademia Umiejętności. Historia Nauki Polskiej w
Monografiach. I. Kraków, 1948. 47 pp.

Source: Mathematical Reviews,

Vol 11 No. 3

MARCZEWSKI, EDWARD

Marczewski, Edward. Séparabilité et multiplication cartésienne des espaces topologiques. Fund. Math. 34, 127-163 (1947).

The author considers various properties of T_1 -spaces which are all equivalent to Hausdorff's second axiom of countability for metric spaces, but which fail to be equivalent to this axiom for more general spaces. Let X be any T_1 -space. The following properties of X are studied: (B) Hausdorff's second axiom of countability obtains in X ; (D) X contains a countable dense subset; (K) the family $\mathcal{O}$ of open subsets of X is such that every uncountable subfamily of $\mathcal{O}$ contains an uncountable sub-subfamily consisting entirely of sets which have pairwise intersections nonvoid; (S) the family $\mathcal{O}$ of open subsets of X contains no uncountable subfamily of sets which are all pairwise disjoint. (Three other properties are also discussed.) It is observed that the implications $(B) \rightarrow (D) \rightarrow (K) \rightarrow (S)$ obtain for all T_1 -spaces, and that, if X is metrizable, then $(S) \rightarrow (B)$ also obtains. Examples are adduced or cited to show the non-equivalence of (B), (D), (K) and (S), with the exception of (K) and (S). The author leaves as an open problem the existence or nonexistence of a T_1 -space enjoying property (S) but failing to enjoy property (K).

Source: Mathematical Reviews, 1948, Vol 9, No. 2

The invariance or non-invariance of these properties under continuous mappings and under the formation of Cartesian products is discussed in some detail. One major theorem is the following. Let $\{X_\lambda\}$, $\lambda \in \Lambda$, be any nonvoid family of nonvoid T_1 -spaces. (The restriction to T_1 -spaces is not essential.) Then the Cartesian product $\prod X_\lambda$, $\lambda \in \Lambda$, enjoys the property (K) if and only if each of the spaces X_λ enjoys the property (K). Applications of the invariance theorems are made to Cartesian products $\prod N_\lambda$ and $\prod B_\lambda$, where N_λ is a countably infinite discrete space (for all $\lambda \in \Lambda$) and B_λ is a T_1 -space consisting of precisely two points (for all $\lambda \in \Lambda$). The author leaves open the question as to whether or not the Cartesian product of two spaces both enjoying property (S) also enjoys property (S).

The author remarks that properties (S) and (K) are meaningful for an arbitrary family of subsets of an arbitrary set, and proves that the subsets of the unit interval which are Lebesgue measurable and have positive measure are a family enjoying property (K). A construction due to Sierpiński is cited to show the nonequivalence of properties (S) and (K) for general families of sets [Ann. Scuola Norm. Super. Pisa (2) 2, 285-287 (1933)].

E. Hewitt.

Edward Marczewski

MARZEWski, E.

Marzewski, E., et Nosatzevska, M. Sur la convergence uniforme et la mesurabilité relative. Colloquium Math. 1, 15-18 (1947).

La simple observation suivante: "La limite d'une suite $f_1(x), f_2(x), \dots$ de fonctions monotones dans l'intervalle $a \leq x \leq b$ est continue, si et seulement si la suite converge uniformément et, en chaque point de l'intervalle $a \leq x \leq b$, l'oscillation de $f_n(x)$ tend vers zéro, lorsque n tend vers $+\infty$ " entraîne immédiatement une condition nécessaire et suffisante pour la continuité de la distributrice, ou distributive [Kac et Steinhaus, Studia Math. 7, 1-15 (1938), p. 4], d'une fonction $f(x)$ définie pour $x \geq 0$ et relativement mesurable. G. Scorza Dragoni (Padova).

Smw *8211*

Source: Mathematical Reviews,

Vol. 9

No. 8

SWIDERSKI, Jan; MARCZEWSKI, Andrzej; ULIASZ, Adolf

Separation and isolation of para- and meta-xylene from crude xylene. Roczniki chemii 36 no.12:1787-1790 '63.

1. Department of Organic Chemistry, Medical Academy, Warsaw.

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ACCESSION NR: AP4047615

SUBMITTED: 30Sep63

ENCL: 00

SUB CODE: ME, EM

NO REF SOV: 001

OTHER: 003

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L 26357-65

ACCESSION NR: AP4047615

designed and constructed for this purpose. The dependence of the power consumed on the power of the high-frequency generator was also determined by the electrical method. The power consumed in discharge is around one-third of the power fed to the generator, which confirms the correctness of the results obtained. The authors venture the opinion that the total high-frequency power supplied by the generator is consumed by the plasma of the ion source. This is confirmed by measurements made by the authors and by data given in the literature. The results of the measurements show that the power consumed by the plasma of the ion source can be estimated on the basis of the power consumed by the high-frequency generator with an accuracy sufficient for practical purposes. For each generator used, however, the relation between the power consumed and the power delivered must be investigated by the method described in the article. The results show that the glass vessel containing the source of ions consumes practically no power and that all the h-f power fed to the source is consumed by the plasma, and that the power consumed by the plasma depends on its volume. Orig. art. has: 7 figures.

ASSOCIATION: Zakład Fizyki Doświadczalnej, Lodz (Institute of Applied Physics)

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Po-4/Pab-10/Pr-4/P1-4 IJP(c) WW/AT
ACCESSION NR: AP4047615

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54
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AUTHOR: Lipinski, A. (Lipin'ski, A.); Malecki, H. (Maletski, G.); Marczewski, A. (Marshevski, A.)

TITLE: Determination of the power consumption by a plasma in a high-frequency ion source

SOURCE: Nukleonika, v. 9, no. 9, 1964, 705-713

TOPIC TAGS: plasma, plasma containment, high frequency ion source, power consumption, plasma volume, plasma pressure

ABSTRACT: The purpose of the present study was to find a sufficiently accurate method for estimating power consumption by a plasma in a high-frequency ion source. Calorimetric and electrical methods were used for the determinations of power consumption, and the agreement between the results obtained by these two methods is very good. Results were in agreement with published data. The dependence of the power consumed on the pressure in the plasma container emitting the source of ions and on the power of the high-frequency generator was determined by the calorimetric method. A special plasma container emitting the source of ions was

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LIPINSKI, Andrzej; MELCHAKI, Henryk; MARCZEWSKI, Andrzej

Determination of plasma power absorption in high-frequency ion sources. Nukleonika 9 no.9:705-711 '64.

1. Institute of Experimental Physics, Lodz.

MARCZEWSKI, A.

MARCZEWSKI, A. New building materials in Hungarian building. p. 11.
Vol. 8, no. 10, Oct. 1956. BUDOWNICTWO WIFJSKIF. Warszawa, Poland.

SOURCE: East European Accessions List (EEAL) Vol. 6, No. 4--April 1957

MARCZEWSKI, A.

Payments in transportation enterprises of the restaurant industry. p. 274. MOTORYZACJA, Warszawa. Vol. 10, no. 9, Sept. 1955.

SOURCE: East European Acession (EEAL) Library of Congress
Vol. 5, no. 8, August 1956.

KAMIENSKI, B.; MARCZEWSKA-CHROMOWA, H.; SIWEK, B.

Electric surface potential and surface tension of aqueous solutions of phthalic acid. Bul chim PAN 9 no.5:355-360 '61.

1. Department of Physical Chemistry and Electrochemistry, Jagiellonian University, Cracow. Presented by B. Kamienski.

(Solutions) (Surface chemistry) (Phthalic acid)

The influence of ...

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A221/A126

H.R. Linden, Ind. Eng. Chem., 47, 2479 (1955). Oil Gas J., 54, nr 35, 113 (1956), K. Kearby, The Chemistry of Petroleum Hydrocarbons, New York 1955.

ASSOCIATION: General Chemistry Institute, Contact Synthesis Department, Warsaw.

SUBMITTED: December 24, 1960

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A221/A126

The influence of ...

The reduction of the partial pressure of hydrocarbons during the pyrolysis process facilitates better distribution of hydrogen between the resulting products. This was particularly noticeable when reduced pressure was applied without addition of steam. In the latter case the output of alkanes increased to 47% and the amount of post-cracking oils dropped to 38%. On the other hand, in processes during which the equally low partial pressure was produced by addition of 110% by weight of steam, the output of olefines was only 43% and at the same time more liquid products (41%) were obtained. In general, carrying out the pyrolysis at reduced pressure shows many advantages. Final evaluation, however, will be made after the proper reactor is designed. Chromatographic analyses were carried out by Engineer R. Pawlowski from the Zakład Syntezy Kontaktowej I.Ch.O. (Institute of General Chemistry, Contact Synthesis Department). The authors express their thanks to Professor Edward Treszczanowicz, Head of the Contact Synthesis Department, for his advice. There are 3 tables, 8 figures and 36 references: 16 Soviet-bloc and 20 non-Soviet-bloc. The references to the 4 most recent English-language publications read as follows: G. Akin, T. Reid, R. Schrader, Chem.Eng.Progr., 54,41 (1958), E.B. Schulz, J.J. Guyer,

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The influence of ...

Table 3

Distribution of hydrogen from raw materials between post-cracking products, % by weight					Partial pressure of hydrocarbons atm.	Steam added in % by weight of raw materials
Olefines C ₂ -C ₄	Gaseous alkanes	Free hydrogen	Other gaseous products	Post-cracking oil + coke		
41.9	24.4	2.3	0.2	31.2	0.67	6
45.3	23.4	3.9	0.3	27.1	0.42	25
46.8	22.6	4.7	0.2	25.7	0.17	110
52.8	20.5	4.7	0.2	21.8	0.2	-

Table 3. Hydrogen balance for pyrolytic processing of gas oil from Mukhanowsk crude, carried out at various partial pressures of hydrocarbons ($\tau = 0.8$ sec, $t \sim 800^\circ\text{C}$)

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initially used raw material and by reducing the pressure in the reactor to 0.2 atm, but without adding steam.

Table 2

Products in % by weight of initial raw materials								Hydro carbon part. press. atm.	Steam added in % by weight of raw materials
Gaseous products					Post crack ing oils	Coke and los ses	Total		
Total	Ole- fines	Hydro gen	Alk- anes	Others					
51.4	37.6	0.3	12.5	1.0	43.6	5.0	100	0.67	6
54.4	40.7	0.5	12.0	1.2	42.0	3.6	100	0.42	25
55.7	42.0	0.6	11.6	1.5	41.3	3.0	100	0.17	110
60.2	47.4	0.6	10.5	1.7	37.8	2.0	100	0.2	-

Table 2. The balance of pyrolysis products from Mukhanowsk crude gas oil carried out at various partial pressures of hydrocarbons ($\tau = 0.8$ sec. $t \sim 800^\circ\text{C}$)

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A221/A126

AUTHORS: Marczewska, Kazimiera and Musierowicz, Jerzy

TITLE: The influence of partial pressure variations of hydrocarbons
on the course of pyrolytic olefine processes

PERIODICAL: Przemysł Chemiczny, no. 3, 1961, 150-153

TEXT: In this article the authors report on their research into
pyrolysis of olefines. The purpose was to investigate the course of
this process at various partial pressures of hydrocarbons and the yield
of individual products. It was the continuation of their research on
liquid-hydrocarbon destruction, part of which has been published in the
beginning of 1960. The reduction of partial pressure of hydrocarbons
during these experiments was achieved by addition of steam or by applica-
tion of negative pressure. For the actual investigation gas oil from
Muchanovsk was used. To sum up the results balance tables (Table 2 and
3) were compiled for pyrolysis processes carried out at various partial
pressures of hydrocarbons. Partial pressure was produced by adding
steam in quantities corresponding to 6, 25 and 110% by weight of the
Card 1/5

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MARCZEWSKA, Kazimiera; MUSIEROWICZ, Jerzy

Pyrolysis of liquid hydrocarbons toward gaseous olefins.
Przem chem 39 no.2:97-104 F '60.

1. Zaklad Syntezy Kontaktowej, Instytut Chemii Ogolnej, Warszawa.